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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,823 02/20/2004		Yoshikatsu Tanaka	WAKA 20.997(100957-00084	7053	
26304	7590 01/12/2006		EXAMINER		
	MUCHIN ROSENMAN ON AVENUE	KINKEAD, ARNOLD M			
	C, NY 10022-2585	ART UNIT	PAPER NUMBER		
		2817			
			DATE MAILED: 01/12/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Α	pplication No.	Applicant(s)	Applicant(s)			
		1	0/783,823	TANAKA, YOSHIKATSU				
		E	xaminer	Art Unit	(km)			
			rnold M. Kinkead	2817				
Period fo	The MAILING DATE of this communi or Reply	ication appear	rs on the cover sheet v	vith the correspondence	address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a unication. tutory period will a will, by statute, cau	E OF THIS COMMUN). In no event, however, may a pply and will expire SIX (6) MC use the application to become A	ICATION. Treply be timely filed INTHS from the mailing date of the MANDONED (35 U.S.C. § 133).	is communication.			
Status								
1) 又	Responsive to communication(s) file	d on 27 Octo	ber 2005.					
2a)□	·		s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٠,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.							
*	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· · ·	Claim(s) <u>1-7</u> is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restric	tion and/or el	ection requirement.					
Applicati	on Papers							
_	The specification is objected to by the	Evaminer						
· <u> </u>	The drawing(s) filed on is/are:		ed or h) objected to	hy the Evaminer				
10)	Applicant may not request that any object	•	•	•	١			
				` '	•			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	ınder 35 U.S.C. § 119							
_	_	e e		0.440() (1) (0)				
	Acknowledgment is made of a claim	for foreign pri	ority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
					nal Chama			
	<u> </u>	•		n received in this Nation	iai Stage			
* 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified explice pet received.							
* See the attached detailed Office action for a list of the certified copies not received.								
A44- 4								
Attachmen	· ·		. . □	C.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
1) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTØ-152)								
Paper No(s)/Mail Date 6) Uther:								

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Pollard(US 4,627,533 new cite).

The reference by Pollard discloses a temperature compensated crystal oscillator, the oscillator circuit is shown in figures 2 and 3. The package is hermetically sealed(see figure 2, and col.4, lines 24-30; In figure 2, the elements/circuit components(resonator crystal 72, a circuit component) is shown mounted on the surface of the substrate(42) in a cavity(44). Figure 3 shows the substrate circuit pattern and shows mounting electrodes(64,66,74,76) on the reverse side. Cols. 1-col. 2 describe the use of temperature compensation circuit(68,70) outside of the crystal cavity that allows for to directly compensating the crystal oscillator. Note chip mounted compensation circuit (70), see col. 3, lines 35-end.

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Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims, 4,5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollard(* 533) in view of Kimura et al (US 6,487,085 cited previously).

The reference by Pollard discloses a temperature compensated crystal oscillator, the oscillator circuit is shown in figures 2 and 3. The package is hermetically sealed(see figure 2, and col.4, lines 24-30; In figure 2, the elements/circuit components(resonator crystal 72, a circuit component) is shown mounted on the surface of the substrate(42) in a cavity(44). Figure 3 shows the substrate circuit pattern and shows mounting electrodes(64,66,74,76) on the reverse side. Cols. 1-col. 2 describe the use of temperature compensation circuit(68,70) outside of the crystal cavity that allows for to directly compensating the crystal oscillator. Note chip mounted compensation circuit (70), see col. 3, lines 35-end.

The reference by Pollard does not show conventional dimensions in (mm) for the chip components. With regard to the latter, the reference by Kimura et al discloses the same dimensions, i.e. 0.6mmX 0.3mm as the size of the chip capacitors(23a, fig.1), see col.5, lines 38-42. These dimensions allow for other elements to share cavity space, for example. Also, an adjustable varactor element for adjusting frequency via an external line is not shown. With

regards this capacitor, Kimura, also shows such an element, see figure 2, element 32, that will allow for frequency adjustment via terminal 34e.

In light of the above it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have recognized the importance of having the proper size dimensions, as noted above by Kimura et al, to allow for the chip elements and crystal to be recessed together. The specific dimension being dependent on the overall desired package size and Kimura et al serves to highlight the use of 0.6mmX0.3mm dimension. The overall function of the elements do not change and thus the reference by Jiles et al could have used such dimensioned chip elements to allow for a particular package size. The use of a varactor is also conventional as highlighted in Kimura, for allowing further frequency control as desired with temperature compensation as well to move towards the desired frequency.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M Kinkead

Primary Examiner

Art Unit 2817

Arnold Kinkead

Jan. 05, 2006